

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Please replace the paragraph beginning at page 5, line 18 with the following paragraph:

The device 100 may provide a simple control that may avoid the presentation of complex options to the presenter. The device 100 may, in one example, provide one or more control signals that may control the advancing or retreating of the next slide of an electronic presentation software package. The device 100 may avoid the requirement for complex instructions that may have the potential for misuse. The device 100 may be connected to a computer (such as a PC or a Macintosh) and may operate without the necessity of pre-installing driver software. The device 100 may have the ability to "hot-plug" into the computer. The ability to hot-plug the device 100 may enable spur-of-the-moment decisions since the device 100 may be plugged in and activated without re-booting the computer.

Please replace the paragraph beginning at page 6, line 9 with the following paragraph:

In one implementation, the device 100 may provide feedback to the presenter in a non-obtrusive manner. For example, if the presenter wishes to know that the next slide is available

(there can be a significant delay between slides, particularly if the slides are rich in graphics and require long disk accesses), the device 100 may give the presenter unobtrusive feedback when the next slide is fully loaded and ready for presentation. In another implementation, if an assistant wishes to help pace a presentation by alerting the presenter that time is running low, an indication may be given by having the assistant press a key on the keyboard of the presentation computer. If an assistant presses the CAPS lock key (e.g., key 206a or any other predefined key) the vibrator assembly 108 may be activated [activate], inconspicuously alerting the presenter.

Please replace the paragraph beginning at page 7, line 9 with the following paragraph:

The computer 200 may have [an] a USB port 202 and a keyboard 204. The keyboard 204 may have a plurality of keys 206a-206n and an LED 208. In one example, the LED 200 may be implemented as a "CAPS lock indication light". However, the LED 208 may be implemented as any type LED in order to meet the criteria of a particular implementation. A Page-Up (PgUP) key 206b and a Page-Down (PgDN) key 206c may be implemented to control an electronic presentation program. However, alternate keys may be implemented to control the electric presentation program. The control circuit

106 may contain firmware code that may be written to accommodate any of keys 206a-206n. When the user is running a presentation program on the computer 200, tapping the PgDN key 206 may advance to the next slide and tapping the PgUP key 206c may go back (e.g., retreat) one slide. One hazard of using the keyboard 204 to control the presentation is that if the user inadvertently holds down the key 206b or the key 206c too long, an "auto-repeat" function of the keyboard 204 may be activated [activate]. The auto-repeat function may rapidly advance and/or retreat through the remaining slides rather than moving one slide forward or backward. The device 100 may prevent the auto-repeat function.

Please replace the paragraph beginning at page 10, line 4 with the following paragraph:

The device 100 may provide unobtrusive feedback to the slide show presenter using the invention by means of the vibrator assembly 108. The vibrator assembly 108 may be activated by the microprocessor 106 via the transistor switch 120 whenever a keyboard light (for example the CAPS lock light) is on. The CAPS lock key 206a and/or 206n may be pressed by an assistant positioned at the computer 200[,] who wishes to alert the presenter that it is time to move on to the next slide. Alternatively, the CAPS lock light 208 may be activated in an automated manner, such as by a

programmed timer in the presentation program software which turns on the CAPS lock light 208 after a predetermined time for each slide. When the CAPS lock key 206a is pressed, either physically or under software control, the computer 200 may turn on the CAPS lock light 208 [on] and simultaneously send a message over the USB cable 107. The message may indicate that the CAPS lock light 208 is on. The microprocessor 106 may be configured to interpret such an event and may turn on the transistor switch 120 to activate the vibrator assembly 108. Similarly, when the CAPS lock key 206a is pressed a second time, the computer 200 may turn off the CAPS lock light 208. The computer 200 may simultaneously send a message over the USB cable 107 indicating that the CAPS lock light 208 is off, which may cause the microprocessor 106 to turn off the vibrator assembly 108.

Please replace the paragraph beginning at page 11, line 19 with the following paragraph:

Referring to FIG. 4, a flowchart of the operations performed by the firmware code stored in the microprocessor 106 is shown. The device 100 is plugged into a USB port at a state 400[,] that may cause a state 401 to enumerate the device 100 as a USB "HID" (Human Interface) device. An example of device enumeration may be found in co-pending applications Serial No. 08/886,923 and

Serial No. 09/232,578 that are each hereby incorporated by reference in their entirety. The advantage of enumerating as a HID device is that the device driver to operate the device is generally included as a standard part of the operating system of the computer 200. A user plugging in the device 100 for the first time may not need to supply a floppy disk or CDROM with a special driver program.

IN THE CLAIMS

Please cancel claims 6 and 18 without prejudice.

Please amend the claims as follows:

Sub Cl
1. (AMENDED) An apparatus comprising:
a first device configured to present one or more control signals configured to control an electronic presentation program in response to one or more input instructions; and

5 a bus interface configured to (i) receive said one or more control signals and (ii) provide power to said device, wherein said first device is configured to operate as a standard device provided in an operating system.
Ab

2. (AMENDED) The apparatus according to claim 1, wherein said electronic presentation program is configured to either advance or retreat through a plurality of slides.

3. (AMENDED) The apparatus according to claim 2, further comprising:

a second device configured to (i) run said electronic presentation program and (ii) communicate through said bus.

4. The apparatus according to claim 1, wherein said bus interface comprises a Universal Serial Bus (USB) bus interface.

5. The apparatus according to claim 1, wherein said bus interface comprises a wireless link between said first device and said second device.

Sub B2 7. (AMENDED) The apparatus according to claim 3, wherein said second device is configured to control said electronic presentation program in addition to said first device.

a1 8. (AMENDED) The apparatus according to claim 3, wherein said second device is a computer.

9. (AMENDED) The apparatus according to claim 8, wherein said first device is configured to be hot-plugged to said computer at any time, even while said computer is running, wherein said device is immediately available for use without re-booting or
5 re-powering said computer.

10. The apparatus according to claim 1, wherein said one or more input instructions are generated by a presenter.

11. The apparatus according to claim 1, wherein said one or more input instructions are generated in response to one or more buttons.

12. The apparatus according to claim 1, wherein said first device is configured to operate without user-installed driver software.

98 Sub B3 13. (AMENDED) The apparatus according to claim 3, wherein said second device further comprises an alert indicator.

14. The apparatus according to claim 13, wherein said alert indicator comprises either a visible indicator or a vibrator.

15. The apparatus according to claim 1, wherein said apparatus further comprises a laser pointer.

Sub B4 16. (AMENDED) A method for controlling an electronic presentation with a device comprising the steps of:

Q9 (A) generating one or more control signals configured to control said electronic presentation program in response to one or more input instructions;

(B) providing power over a bus; and

(C) operating said device as a standard device provided in an operating system to avoid user installed driver software.

17. The method according to claim 16, further comprising the step of:

either advancing or retreating through a plurality of slides in response to said one or more control signals.

19. The method according to claim 16, wherein said method is implemented using a Universal Serial Bus (USB) bus interface.

20. (AMENDED) An apparatus comprising:

a device configured to (i) control an electronic presentation program and (ii) communicate through a bus, wherein said device is configured to operate as a standard device provided in an operating system ; and

a computer configured to (i) run said electronic presentation program and (ii) communicate through said bus, wherein said device is configured to control said electronic presentation program and simultaneously allow said computer to control said electronic presentation program.

Please add the following new claims:

21. (NEW) The apparatus according to claim 1, wherein said apparatus comprises a handheld device.

Amended Sub
C1

22. (NEW) The apparatus according to claim 1, wherein
said first device is configured to enumerate as said standard
device.

VERSION WITH MARKINGS TO SHOW CHANGES MADE

1. (AMENDED) An apparatus comprising:

a first device configured to present one or more control signals configured to control an electronic presentation program in response to one or more input instructions; and

5 a bus interface configured to (i) receive said one or more control signals and (ii) provide power to said device, wherein said first device is configured to operate as a standard device provided in an operating system.

2. (AMENDED) The apparatus according to claim 1, [further comprising:] wherein said electronic presentation [a] program is configured to either advance or retreat through a plurality of slides [in response to said one or more control
5 signals].

3. (AMENDED) The apparatus according to claim 2, further comprising:

a second device configured to (i) run said electronic presentation program and (ii) communicate through said bus.

7. (AMENDED) The apparatus according to claim 3, wherein said second device is configured to control said electronic presentation program in addition to said first device.

8. (AMENDED) The apparatus according to claim 3 [6], wherein said second device is a computer.

9. (AMENDED) The apparatus according to claim 8 [7], wherein said first device is configured to be hot-plugged to said computer at any time, even while said computer is running, wherein said device is immediately available for use without re-booting or
5 re-powering said computer.

13. (AMENDED) The apparatus according to claim 3 [10], wherein said second device further comprises an alert indicator.

16. (AMENDED) A method for controlling [a] an electronic presentation with a device comprising the steps of:

(A) generating one or more control signals configured to control said electronic presentation program in response to one or
5 more input instructions;

[(B) receiving said one or more control signals; and]

[(C)] (B) providing power over a bus; and

(C) operating said device as a standard device provided in an operating system to avoid user installed driver software.

20. (AMENDED) An apparatus comprising:

a device configured to (i) control an electronic presentation program and (ii) communicate through a bus, wherein said device is configured to operate as a standard device provided in an operating system [said electronic presentation program comprises a plurality of slides]; and

a computer configured to (i) run said electronic presentation program and (ii) communicate through said bus, wherein said device is configured to control [either advance or retreat through] said electronic presentation program [plurality of slides] and simultaneously [to] allow said computer to control said electronic presentation program.

21. (NEW) The apparatus according to claim 1, wherein said apparatus comprises a handheld device.

22. (NEW) The apparatus according to claim 1, wherein said first device is configured to enumerate as said standard device.

R E M A R K S

Careful review and examination of the subject application are noted and appreciated.

SUPPORT FOR CLAIM AMENDMENTS

Support for the amendments to the claims can be found in claim 12 as originally filed and in the specification on page 6, lines 2-8, page 11, line 21 to page 12, line 10, and page 13, line 17 to page 17, line 7. Support for newly presented claim 21 can be found in FIG. 1. As such, no new matter has been added.

CLAIM REJECTIONS UNDER 35 U.S.C. §103

The rejection of claims 1-12 and 15-19 under 35 U.S.C. §103(a) as being obvious over Lin '933 in view of Sartore et al. '103 has been obviated by appropriate amendment and should be withdrawn.

The rejection of claims 13-14 and 20 over Lin '935 in view of Meyn et al. '623 has been obviated by appropriate amendment and should be withdrawn.

Lin teaches an interactive display presentation system (Title). Sartore et al. teaches a bus interface system and method (Title). In contrast, claim 1 of the present invention provides a first device configured to present one or more control signals configured to control an electronic presentation program in

response to one or more input instructions. The first device may be configured to operate as a standard device provided in an operating system. Claim 16 is a method with similar limitations to claim 1. Lin does not teach or suggest a device configured to operate as a standard device provided in an operating system. The Examiner failed to provide an explanation of how Sartore cures the deficiencies of Lin. As such, the presently pending invention is fully patentable over the cited references and the rejection should be withdrawn.

Claim 20 provides a device configured to control an electronic presentation program and simultaneously to allow a computer to control the electronic presentation program. The device is configured to operate as a standard device provided in an operating system. Neither Lin nor Meyn, alone or in combination, teach or suggest a device configured to operate without user-installed driver software by operating as a standard device provided in an operating system. As such, the presently pending invention is fully patentable over Lin and Meyn and the rejection should be withdrawn.

Furthermore, newly presented claim 21 is independently patentable over the cited references. Neither Lin nor Meyn, teach or suggest a handheld device as presently claimed. In particular, item 30 of Lin does not appear to be handheld, as presently claimed.

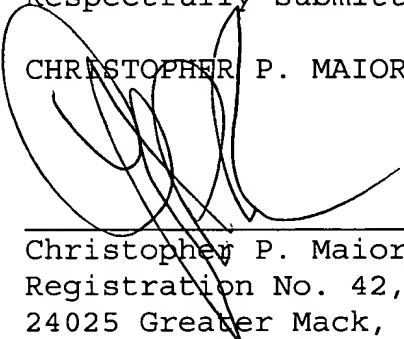
Accordingly, the present application is in condition for allowance. Early and favorable action by the Examiner is respectfully solicited.

The Examiner is respectfully invited to call the Applicants' representative should it be deemed beneficial to further advance prosecution of the application.

If any additional fees are due, please charge our office Account No. 50-0541.

Respectfully submitted,

CHRISTOPHER P. MAIORANA, P.C.



Christopher P. Maiorana
Registration No. 42,829
24025 Greater Mack, Suite 200
St. Clair Shores, MI 48080
(586) 498-0670

Dated: September 27, 2002

Docket No.: 0325.00281